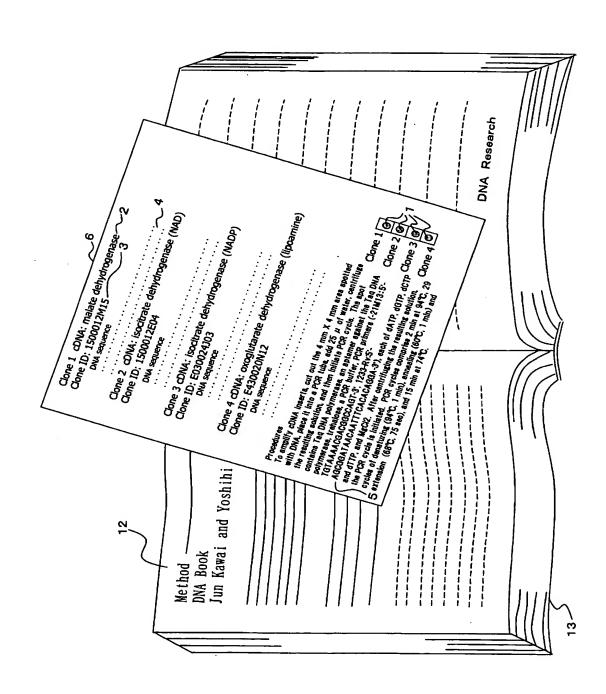
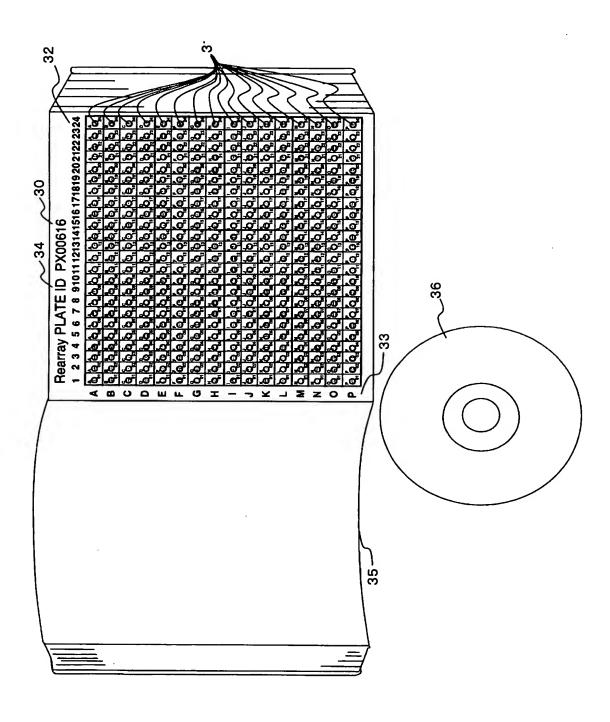
~ 6	
Clone 1 cDNA: malate dehydrogenase 2	
Clone ID: 1500012M15 3	
DNA sequence	
•• •• •• •• •• •• •• •• •• •• • • • • •	
** ** ** ** ** ** ** ** ** ** ** ** **	
•• •• •• •• •• •• •• •• •• •• •• •• ••	
Clone 2 cDNA: isocitrate dehydrogenase (NAD)	
Clone ID: 1500012E04	
DNA sequence	
on sequence	
** ** ** ** ** ** ** ** ** ** ** ** **	
** ** ** ** ** ** ** ** ** ** ** ** **	
Clone 3 cDNA: isocitrate dehydrogenase (NADP) Clone ID: E030024J03	
DNA sequence	
** ** ** ** ** ** ** ** ** ** ** ** **	
Clone 4 cDNA: oxoglutarate dehydrogenase (lipoamine)	
Clone ID: E430020N12	
DNA sequence	
•••••••••••••••••••••••••••••••••••••••	
Procedures	
To amplify cDNA inserts, cut out the 4 mm X 4 mm area spotted with DNA,	
place it into a PCR tube, add 25 μ of water, centrifuge the resulting solution	Clone 1 🚱
and then initiate PCR cycle. The spot contains Tag DNA polymerase, an antamer	
against the Tag DNA polymerase, trehalose, a PCR buffer, PCR primers (-21M13:	Clone 2 9 1
5'-TGTAAAACGACGGCCAGT-3', 1233-Rv:5'-AGCGGATAACAATTTCACACAGGA-	Clone 3
3'), each of dATP, dGTP, dCTP and dTTP, and MgCl2. After centrifuging the	Clone 4 🚳
resulting solution, the PCR cycle is initiated. PCR cycles comprise 2 min at 94°C, 29 cycles of denaturing (94°C, 1 min), annealing (60°C, 1 min) and extension	Cione 7
(68°C, 75 sec), and 15 min at 74°C.	



Clone 4 Clone 4 cDNA: oxoglutarate dehydrogenase (lipoamine) Clone 1 Clone 3 cDNA: isocitrate dehydrogenase (NADP) Clone 2 cDNA: isocitrate dehydrogenase (NAD) 3. 1233-Rv:5'-AGCGGATAACAATTTCACAGAGA-3'), each of dATP, dQTP, dCTP and dTTP, and MgCl2. After centrifuging the resulting solution, the PCR cycle is initiated. PCR cycles comprise 2 min at 94°C, 29 cycles of denaturing (94°C, 1 min), annealing (60°C, 1 min) and extension (68°C, 75 sec), and 15 min at 74°C. To amplify cDNA inserts, cut out the 4 mm X 4 mm area spotted with DNA, place it into a PCR tube, add 25 μ of water, centrifuge the resulting solution, and then initiate PCR cycle. The spot contains Tag DNA polymerase, an Clone 1 cDNA: malate dehydrogenase ဖ Clone ID: 1500012M15 Clone ID: 1500012E04 Clone ID: E430020N12 Clone ID: E030024303 **DNA** sequence DNA sequence **DNA** sequence DNA sequence



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Fig. 5

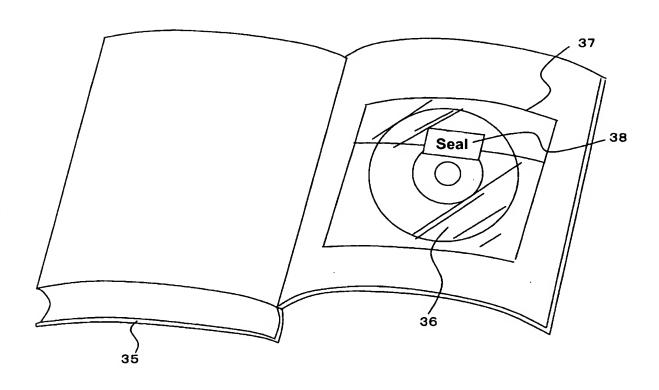
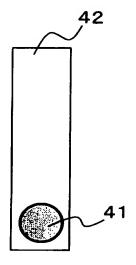


Fig. 6



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Fig. 7

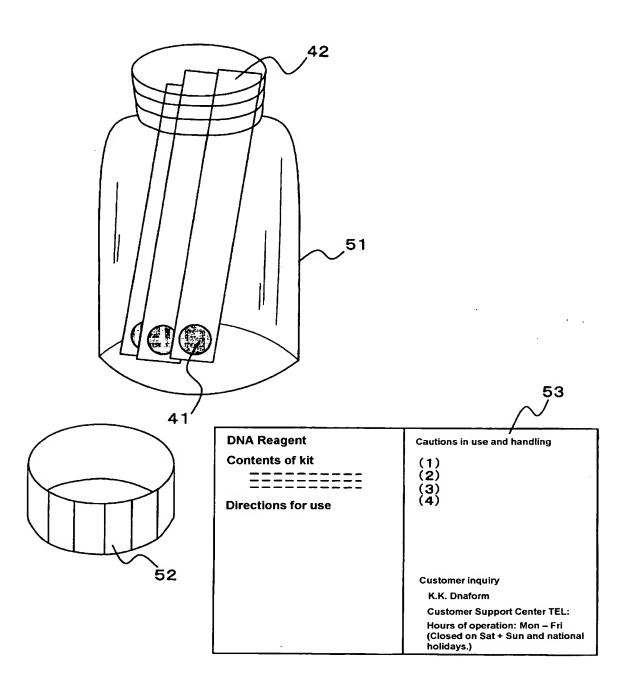
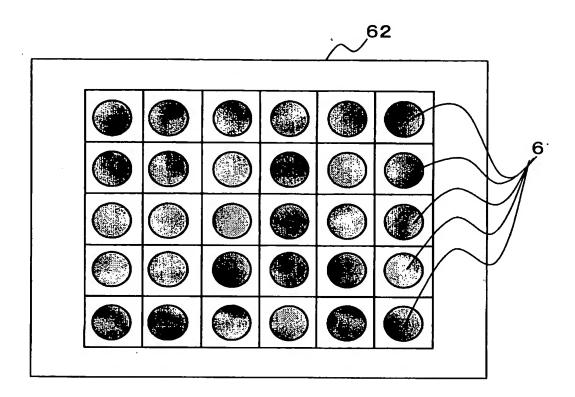
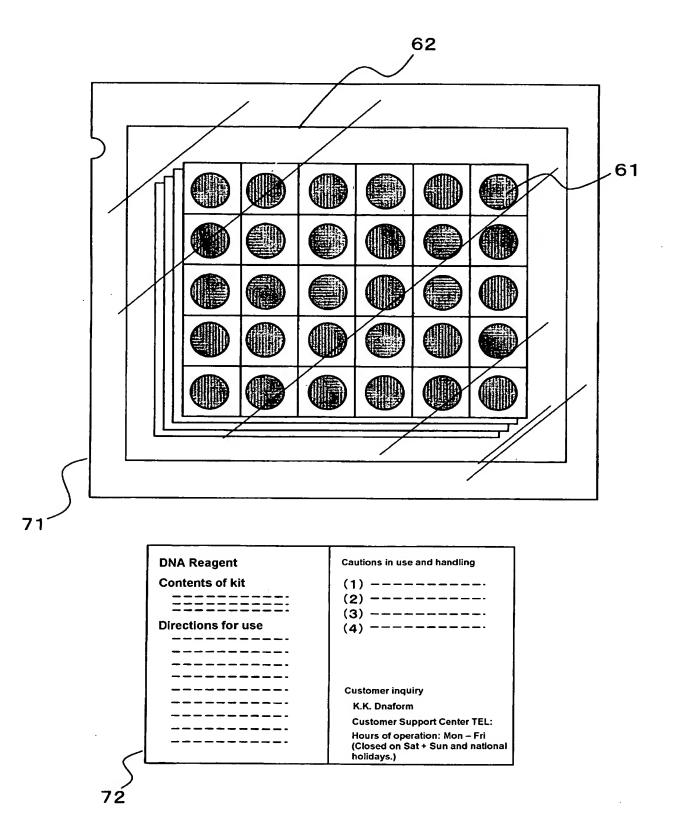


Fig. 8



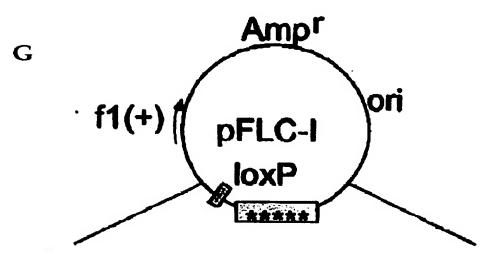
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Fig. 9



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Fig. 10



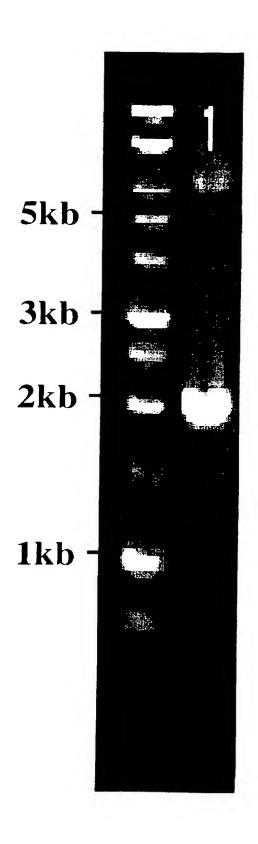
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TCCCTTTAGTGAGGGTTAATTCGAGCTTGGCGTAATCATGGTCATAGCTGTTTC
CTGTGTGAAATTGTT

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000	cDNA: malate dehydrogenase Clone ID: 1500012M15
000000000000000000000000000000000000000	cDNA: malate dehydrogenase Clone ID: 1500012M15 DNA sequence Amino acid sequence
	Primer - 21M13 : 5'-TGTAAAACGACGGCCAGT-3' 1233-Rv : 5'-AGCGGATAACAATTTCACACAGGA-3' malate dehydrogenese cDNA primers

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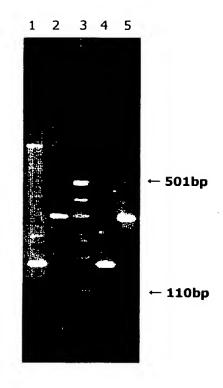
Fig. 12



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Fig. 14

Lane 1:primer set 1, aptamer (-)
Lane 2:primer set 2, aptamer (-)
Lane 3:size marker
Lane 4:primer set 1, aptamer(+)
Lane 5:primer set 2, aptamer(+)



Clone 1 cDNA: malate dehydrogenase Clone ID: 1500012M15			
DNA sequence			
Clone 2 cDNA: isocitrate dehydrogena: Clone ID: 1500012E04	se (NAD)		
Clone 3 cDNA: isocitrate dehydrogenas Clone ID: E030024J03	 e (NADP)		
DNA sequence	· · · · · · · · · · · · · · · · · · ·		
Clone 4 cDNA: oxoglutarate dehydrogenase (lipoamine) Clone ID: E430020N12			
DNA sequence	Clone 1		

Fig. 16

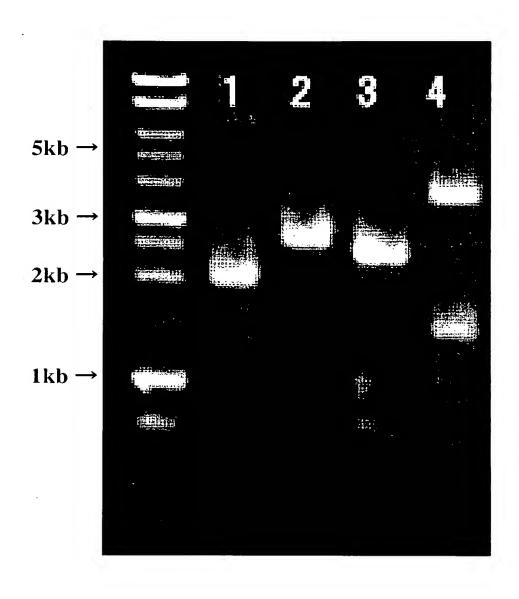


Fig. 17

1 2 3 1.76 kb